## PARSONS ENGINEERING SCIENCE, INC.

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## **MEETING NOTES**

TO:

Distribution

DATE:

November 1, 1994

FROM:

Philip Nixon

PROJECT:

Solar Pond IM/IRA

MEMO #:

SP307:110194.02

ATTENDANCE:

**DISTRIBUTION:** 

Phil Nixon, Parsons ES Arturo Duran, EPA Harlen Ainscough, CDPHE Frazer Lockhart, DOE Andy Ledford, EG&G Steve Keith, EG&G Melina Arai, CDPHE

Randy Ogg, EG&G Mark Austin, EG&G Michelle McKee, EG&G Steve Cooke, EG&G Toni Forbes, EG&G M. Matthews, EG&G (Admin. Record) (2) Peg Witherill, DOE/SAIC Scott Surovchak, DOE Jeff Ciocco, DOE Jesse Roberson, DOE Bob Siegrist, LATO Tom Peters, PRC Tom Broderick, ERM Eric Graham, ERM Alan McGregor, ERM John Haasbeek, ERM Marcia Dibiasi, IGO P. Breen

B. Cropper W. Edmonson T. Evans J. Hartfelder H. Heidkamp R. Henry M. Hill P. Holland S. Hughes D. Kennedy R. Lux R. McConn D. Myers A. Putinsky R. Stegen S. Stenseng R. Schmiermund R. Wilkinson T. Kuykendall Central Files

**SUBJECT:** Weekly Status Meeting

Steve Keith presented the new propsed IAG milestones. The summary schedule integrates the OU4 program. It was pointed out that the new proposed date for the proposed IM/IRA-EA Decision Document (February 10, 1995) is about 2 weeks later than the date that DOE proposed during the 1994 dispute. The new proposed dates for the responsiveness summary (June 9,

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DOCUMENT CLASSIFICATION REVIEW WAIVER PER CLASSIFICATION OFFICE Meeting Notes November 1, 1994 Page 2

1995) and the final IM/IRA-EA Decision Document (August 29, 1995) is about 1 month later than the date proposed by DOE during the 1994 dispute. The final Title II submittal (December 18, 1995) will be approximately 6 months later than the date proposed during the 1994 dispute. The start of IM/IRA construction (October 1996) is nearly one year later than the 1994 dispute proposed construction start date.

Mr. Keith pointed out that the construction start date for the removal of Building 788 and Building 964 is projected to be in February of 1996. The facility removal needs to be completed before the IM/IRA SEP closure construction can commence.

It was discussed that construction activities would be ongoing throughout 1995 to prepare for the start of the IM/IRA SEP closure construction. The following activities will occur:

- 1) Removal of non-RCRA unit equipment
- 2) Installation of a new gate and access road through the security fence.
- 3) Early site preparation and utility modifications.

It was noted that new scope had been added to the project since the 1994 dispute which impacted the schedule. The DOE is now proposing that pondcrete be consolidate beneath the engineered cover as a component of the IM/IRA. In addition, OU4 will annex Individual Hazardous Substance Site (IHSS) 176 and remove Building 964.

Frazer Lockhart mentioned that the design and installation of the sludge/pondcrete treatment equipment is an important factor in the integrated OU4 schedule. Saltcrete stored on the 904 and 750 Pads needs to be shipped offsite to make room for the sludge/pondcrete treatment system. Mr. Lockhart noted that the SEP closure IM/IRA will apply pressure to the DOE/EG&G team that is working on shipping saltcrete to Envirocare.

Arturo Duran asked Frazer Lockhart if the DOE was satisfied that the extension of the IM/IRA construction start date was appropriate with respect to the programmatic changes. Frazer Lockhart answered that the DOE considers the schedule extension appropriate for the following reasons:

- 1) The project scope changes have had a significant positive impact on the DOE remediation and waste management programs. Additional areas will be closed/remediated (Building 964/IHSS 176). The disposal cost savings from dispositioning pondcrete and sludge beneath the engineered cover are significant.
- 2) The schedule extension reflects the impacts from the 1994 dispute resolution and provides a realistic period for "meaningful" public involvement and input.
- 3) The new proposed IM/IRA construction start date is still ahead of the original IAG construction start date.

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Harlen Ainscough questioned why the submittal of the proposed IM/IRA-EA Decision Document was held up until February of 1995. Frazer Lockhart indicated that the new scope items impacted the schedule (pondcrete, IHSS 176, and Building 964). Mr. Lockhart continued that the DOE formally decided at the end of September to accept the risk of proposing (and designing) pondcrete as a component of the IM/IRA. Since then, EG&G has been working to put these new tasks within the EG&G project baseline, as well as into their subcontractors contracts. The contractual activities should be completed to the point were work can commence by the second week of November. Phil Nixon added that the IHSS 176 RFI/RI data has just been completed and made available by OU10 during the last week of October.

It was discussed that it would be best to submit the IM/IRA-EA Decision Document to the public after the holiday season because members of the public cannot be expected to review the multivolume document during the holidays. It was agreed that the public will need adequate time to review and comment on the document. It was also agreed that the draft IM/IRA-EA Decision Document has received a significant level of interest by the Citizens Advisory Board (CAB). Frazer Lockhart stated that the project could be placed on hold if there was a high level of public interest that requested that an Environmental Impact Statement (EIS) be prepared for the project.

Harlen Ainscough and Arturo Duran generally agreed that the IM/IRA-EA Decision Document schedule is reasonable after the submittal of the proposed document (February 10, 1995).

Arturo Duran and Harlen Ainsocugh agreed that they would like the DOE to provide a detailed schedule for agency review prior to the acceptance of the new proposed IAG milestone dates.

It was discussed that EG&G is preparing a plan to accelerate the Phase II project schedule. The agencies will be briefed on the plan after EG&G/DOE are in agreement with the strategy. It was discussed that the Phase I schedule and accelerated Phase II should not be linked together at this time because the Phase II schedule acceleration was currently in the planning stage, and the Phase I IM/IRA project needs a schedule so that project progress is not held up.

Arturo Duran requested that DOE prepare an economic assessment to determine if the loss of a year with respect the IM/IRA construction schedule was sufficiently offset by the economic advantages of including sludge and pondcrete as components of the IM/IRA.

Philip A. Nixon

Milestone	Original IAG	Streamline 1	1994 Dispute²	Current <sup>3</sup>
> IM/IRA (Phase I) IAG Draft Proposed IM/IRA DD	Apr 14, 1994	Apr 14, 1994 [May 27, 1994]	N/A	May 27, 1994 🗸
Proposed IM/IRA DD	Sep 12, 1994	Jun 24, 1994 [Aug 6, 1994]	Jan 26, 1995	Feb 10, 1995
IM/IRA Responsiveness Summary	Jan 25, 1995	Nov 1, 1994 [Dec 14, 1994]	Jun 5, 1995	June 9, 1995
Final IM/IRA DD and Responsiveness Summary	Apr 24, 1995	Jan 13, 1995 [Feb 25, 1995]	Jul 24, 1995	Aug 29, 1995
Final IM/IRA Title II Design	Jun 24, 1996	Feb 10, 1995	Jun 21, 1995	Dec 18, 1995
Start of IM/IRA Construction	Jan 28, 1997	Sep 27, 1995	Sep 27, 1995	Oct 28, 1996
▶ Phase II IAG	•			
Draft Phase II RFI/RI Work Plan	Apr 22, 1994	Apr 14, 1994 [May 27, 1994]	May 27, 1994	May 27, 1994 🗸
Final Phase II RFI/RI Work Plan	Sep 19, 1994	Jun 24, 1994 [Aug 6, 1994]	Aug 6, 1994	Aug 6, 1994 V Sep. 7, 1994 L
> Other IAG All Ponds Empty	N/A	Jan 20, 1995	Jan 20. 1995	Jan 20, 1995

## Notes:

- 1. Date in brackets represents change made in response to Regulator-requested 43 day extension.
- 2. Dates were proposed to support increase in scope associated with disposition of pond sludge as part of the interim measure. Dates were rejected by Regulators.
- 3. New IAG commitment dates: transmitted to agencies 10/20/94

Conditional approval on Phase II 4/P on 10/18/94

ACTIVITY	ACTIVITY	ORIG DUR		EARLY START		EVOL	5\/0F	EV00	TV67
ID	DESCRIPTION	שטע	חטת	SIANI	FINISH	FY94	FY95	FY96	FY97
12153-WASTE STORAGE									
1215311105	904 PAD COMPLIANCE / REPACK / RESTACK	356	188	28FEB94A	31JUL95			·	
1215351000	PAD: MGNT/ADMIN/OPERATIONS/MAINTENANCE	1244	1227	3OCT94A	30SEP99	┤╷╒	^	<del></del>	
1215356001	COMPLETE REPACK/RESTACK	_0	0		31JUL95	<del> </del>	<b>♦</b>	·	<del></del>
12187-TESTIN	IG & OPS (ASRP)					<b>⊣</b> ∴		•	•
1218781500	207C - POND GRIND & SLUDGE TRANSFER	84	37	19AUG94A	19DEC94	_ =		•	•
1218781570	207C - POND EMPTY	0	0		19DEC94 .	4 .	<b>\</b>		,
1218781580	207C - POND RINSE & WASH	15	15	20DEC94	17JAN95	'		•	,
1218751320	207C - POND CLEAN & DRY	0	00		18JAN95	-	<b>*</b>	•	•
1218751399	IAG - ALL SOLAR PONDS CLEAN & DRY	0	0		20JAN95	- <del> </del>	<b>♦</b>		· · · · · · · · · · · · · · · · · · ·
12159-PHASE	I RCRA FACILITY INVESTIGATION					- <del></del>		•	•
1215931000	FIELD INVESTIGATIONS / LAB ANALYSIS	599	134	14DEC92A	12MAY95			· · · · · · · · · · · · · · · · · · ·	
12162-INTERI	M MEASURE DECISION DOCUMENT					- <del> </del>	<u></u>		•
1216280120	PREPARE PROPOSED IM/IRA DECISION DOCUMENT	248	70	14FEB94A	10FEB95	_		•	•
1216280125	IAG #2 PROPOSED IM/IRA DECISION DOCUMENT	0	00		10FEB95	-{ ·	\ <u>\</u>	•	•
1216280130	PUBLIC COMMENT & AGENCY REVIEW ON IM/IRA DD	42	42	13FEB95	11APR95	-		1	•
1216280131	ADDRESS COMMENTS & PREP DRAFT RS	40	40	12APR95	8JUN95	-  :		•	•
1216280152	IAG #3 SUBMIT DRAFT RESPONSIVENESS SUMMARY	0	0		9JUN95	-		•	•
1216266500	AGENCY REVIEW & COMMENT ON DRAFT RS	21	21	12JUN95	11JUL95			•	•
1216266505	FINALIZE DECISION DOCUMENT & RESPONSIVENESS SUMM	34	34	12JUL95	28AUG95	-		•	•
1216280167	IAG #4 SUBMIT FINAL IM/IRA DD & RESPONSE SUMM	0	0		29AUG95	-} ·	<b>&gt;</b>	_'	
1216280315	AGENCY APPROVAL OF FINAL IM/IRA DD & RS	21	21	30AUG95	28SEP95	<del>                                     </del>		<u></u>	·
12189-SLUDG	SE & INV PONDCRETE ENGINEERING					J			
12189S1100	TREATABILITY STUDY REPORT - SLUDGE	191	88	1JUN94A	8MAR95				•
12189S1200	CONCEPTUAL DESIGN REPORT - SLUDGE	224	149	12JUL94A	5JUN95	<b>→</b>		•	•
12189S1300	PRE-TITLE II DESIGN - SLUDGE	185	149	6SEP94A	5JUN95	<b>│</b>		•	
12189R1100	TREATABILITY STUDY REPORT - IPC	181	150	13SEP94A	6JUN95	<u> </u>		•	•
12189R1200	CONCEPTUAL DESIGN REPORT - IPC	236	206	14SEP94A	24AUG95	_			•
12189R1300	PRE-TITLE II DESIGN - IPC	241	211	14SEP94A	31AUG95	<u> </u>		·	:
12189S1400	TITLE II DESIGN - SLUDGE	131	131	6JUN95	11DEC95				1
12189R1400	TITLE II DESIGN - IPC	131	131	1SEP95	14MAR96	-	j C		
12189S1500	TITLE III DESIGN - SLUDGE	120	120	12DEC95	6JUN96	_ '			•
12189R1500	TITLE III DESIGN - IPC	120	120	15MAR96	4SEP96	<u> </u>		<u>'</u>	
12147-CONS	TRUCTION - TREATMENT					┙.			·
12147B3500	CONSTRUCTION OF PROCESS TRAINS	377	377	11AUG95	18FEB97		<b>1</b> — —		
12147\$3240	BENEFICIAL OCCUPANCY - SLUDGE	0	0		23MAY96	-		<b>♦</b>	e .
12147R3540	BENEFICIAL OCCUPANCY - IPC	00	0		21AUG96	<del></del>		<u> </u>	•
12148-OPER	ATIONS - TREATMENT					<b>」</b> ∴	1		•
12148\$6411	CC/SO TEST (COLD TEST) - SLUDGE	5	5	24MAY96	31MAY96			. 0	
12148R6411	CC/SO TEST (COLD TEST) - IPC	5	5	22AUG96	28AUG96	<b>」</b> ⋅		. 0	•
12148S6440	PROCESS HOT QUAL TESTING - SLUDGE	20	20	2JAN97	29JAN97	_	1		. 🛮
12148\$6450	OPERATE SLUDGE PROCESSING	220	220	30JAN97	11DEC97	<u> </u>	L	·	
Plot Date Data Date Project Start Project Finish	105000	OSED S	UMMAF		SOLAR PON ULE MADD 95-FY97		Date	Revision	Checked Approved
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ACTIVITY	ACTIVITY	ORIG DUR		EARLY START	EARLY	EVOA	EVOE.		EV63
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12148R6440	PROCESS HOT QUAL TESTING - IPC	20	20	17FEB97	14MAR97	-		•	. <u>"</u>
1214BR6450 OPERATE IPC PROCESSING 12181-CONSTRUCTION (IM/IRA)		220	220	17MAR97	3FEB98	<del>                                     </del>			
		400	005	15400044	1005005	· .	<u> </u>	<del>'                                    </del>	•
1218111300	PREPARE IM/RA TITLE II DESIGN	420 0	285 0	15APR94A	18DEC95 18DEC95	1		. •	•
1218111390	IAG #5 - FINAL IM/IRA DESIGN PACKAGES  AGENCY REVIEW/COMMENT ON FINAL IM/IRA T-II DESIG	31	31	19DEC95	7FEB96	┪ :]		. 🔽	•
1218111330		14				┥ :1	,	. 🗀	
1218111350 -	FINALIZE IM/IRA TITLE II DESIGN	0	14 0	8FEB96	27FEB96 27FEB96	-			•
1218111400	START OF CONTRACTOR MOBILIZATION	169	169	28FEB96	25OCT96	-  ·		· ~	¬
1218111450	PRE-IAG #6 IM/IRA CONSTRUCTION	257	257		6NOV97	-		·	<u> </u>
1218112195	EXCAVATION WORK			28OCT96		┤ ∷		•	. •
1218112299 12165-DHASE	IAG #6 START OF CONSTRUCTION (SOIL MOVEMENT)  II RCRA FACILITY INVESTIGATION	. 0	0		28OCT96	+			
	PREPARE PHASE II RFI/RI REPORT	161	161	4OCT95	29MAY96	-		<del></del>	
1216542000	IAG #9 TRANSMIT DRAFT FINAL RFI/RI REPORT	101	0	400193	30MAY96	-			•
1216542120	DRAFT FINAL RFI/RI REPORT - EPA/CDPH&E REVIEW	61	61	31MAY96	26AUG96	┤ '		· —	•
1216542130	FINALIZE REVIRI REPORT	11	11	27AUG96	11SEP96	- : : : : : : : : : : : : : : : : : : :			
1216542140 1216542160	TRANSMIT FINAL REFORT	0	<u></u> ''	27 AUG96	11SEP96	- '			
12166-CMS/F					HOLF86	<del>                                     </del>		<del>.</del>	
1216633000	CMS/FS PREPARATION	493	493	16JUN95	9JUN97	┪ '		•	<del>`                                    </del>
1216633010	IAG #11 DRAFT PHASE II CMS/FS REPORT	0	0	10301193	5DEC96	1 ∷			. •
1216633015	AGENCY REVIEW OF DRAFT PHASE II CMS/FS REPORT	62	62	6DEC96	11MAR97	1 :1		•	; —
1216633020	IAG #12 COMPLETE PHASE II CMS/FS FINAL REPORT	0	0	<u> </u>	9JUN97	<b>1</b> .∣		•	. — 🔷
1216635015	IAG #13 COMPLETE FINAL PHASE II PROPOSED PLAN	0	0		9JUN97	<b>1</b> ⋅			
1216633025	AGENCY REVIEW OF PHASE II CMS/FS FINAL REPORT	21	21	10JUN97	9JUL97	┤ '│			
1216635010	FINAL PHASE II PROPOSED PLAN PREPARATION	41	41	10JUN97	6AUG97	┤ :			
1216635020	IAG #14 COMPLETE PROPOSED PLAN FINAL REPORT	0	0	70001107	5SEP97	1 .1		•	· c
1216635013	PUBLIC COMMENT/AGENCY REVIEW PHASE II PP	41	41	8SEP97	3NOV97	<b>1</b> .∣		•	
	REMEDIAL ACTION CONSTRUCTION (FAC		·············			1		<u>.                                    </u>	<del> </del>
1213410001	CONCEPTUAL DESIGN OF PHASE II	65	65	2JAN97	3APR97	i :		•	· 🗀
1213420001	TITLE I DESIGN OF PHASE II	100	100	4APR97	25AUG97	7			
1213430001	TITLE II DESIGN OF PHASE II	105	105	26AUG97	30JAN98	i i i		1	
12173-POST	CLOSURE MONITORING (IM/IRA)					1			1
1217360001	POST CLOSURE MONITORING & MAINTENANCE	7731	7731	1OCT96	1NOV27	7 :		•	
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## OU 4 MAD SCHEDULE ASSUMPTIONS

- Sludge and inventoried pondcrete are to be minimally treated and disposed of under the
  engineering cap. Full impact of this scope change has not been fully assessed. In addition,
  these impacts to IAG milestones are in negotiation with the regulators Impacts will handled
  through the change system. This schedule based on current funding constraints and review
  cycles which will probably be changed during negotiations.
- Rocky Flats Environmental Technology Site (RFETS) Environmental Restoration Program (ER) will continue to be managed as a DOE Major System Acquisition (MSA).
- The existing Davis-Bacon "covered" determination for the construction activities will not change.
- Design and procurement durations associated with sludge treatment are based on Safety Category III, Quality Level III, and system classification.
- HNUS will be sole sourced as the Conceptual Design and Treatability MTS subcontractor.
   Title II, III, and startup assistance will be awarded through the A-E MTS subcontract vehicle. Waste Certification and Onsite Transportation are an EG&G responsibility.
- The minimal treatment of pondsludge and pondcrete will be performed on the 750 Pad and/or 904 Pad. Space will be made available by shipping LDR compliant saltcrete to Envirocare, moving waste to the new centralized waste storage facility, or some other location.
- One process train will be constructed to process both C Pond/Clarifier and A/B Pond sludges.
   This equipment will be located in the vicinity of the 750 Pad. A crushing system, at minimum, will be required for pondcrete processing.
- EnviroCare will be the waste disposal site for the wastes generated during pond closure (and not placed under the engineered barrier) and will be available per the closure schedule; no new storage areas are needed at Rocky Flats for this material.
- IHSS 176 will be annexed as part of OU 4 closure.
- Initial issue of the Decision Document (DD) does not include the C-Pond and B-South Pond
  Remedial Investigation. The C-Pond and B-South Pond Remedial Investigation will be
  included through amendment of the IM/IRA when available and is excluded from the
  deliverable-commitments for the IAG.
- A Corrective Action Management Unit (CAMU) is granted by allowing soils on the edge of Pond 207C to be excavated and placed under the cap without treatment to comply with Land Disposal Restrictions.
- The DOE will concur with and approve the hazard classification of the remediation of OU 4 to be Category III.

- Removal of liners and soil offsite will not be required for pond partial closure, though some minimal consolidation of these materials within the pond IHSS may occur.
- The scope of NEPA activities for Phase I remediation will be an Environmental Assessment only (an Environmental Impact statement will not be required).
- The stabilized sludge and pondcrete waste product must meet waste acceptance criteria of Performance standards as defined in the IM/IRA DD. FO39 analyte listing will not be required.
- 750 and 904 Pad operations, maintenance, and RCRA compliance, while still funded by EM 40, are in waste management scope, not solar ponds' scope.